



Model Answer

Question No. 1

[5 Marks]

Perform the following operations:

a) $1111 + 1100$

11011

b) $10010110 - 101100$

1101010

c) $10100 \div 100$

00101

d) $010001010000 + 010000010111$ in BDC format

$450 + 417 = 867$ --- also you can add in binary and then convert result to BCD

e) the standard form of expression $(A + B' + C) (B' + C + D')$

the missing variable in the term $(A + B' + C) = D$ or D' , so add DD' to the term =

$(A + B' + C + D) (A + B' + C + D')$

the missing variable in the term $(B' + C + D')$ is A or A' , so add AA' to the term =

$(B' + C + D' + A) (B' + C + D' + A')$

So the standard form =

$(A + B' + C + D) (A + B' + C + D') (B' + C + D' + A) (B' + C + D' + A')$

Question No. 2

[5 Marks]

- a) what is the decimal value of the signed binary number expressed in 1's complement: 111010007

Summing the weights where there are 1s, $-128 + 64 + 32 + 8 = -24$

Adding 1 to the result, the final decimal number is $= -24 + 1 = -23$.

- b) what is the equivalent octal number of the binary number: 1001100110107

$100110011010 = 4632_8$

Answer To Ucla Logic

Gerhard Jäger



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